

Dear XX;

EPA would like to invite you to participate in a 1-day workgroup meeting to be held in Portland as part of EPA's Columbia River Cold Water Refugia Project. As part of EPA's recent Endangered Species Act Section 7 consultation with NOAA fisheries concerning the State of Oregon's water quality standards, EPA is developing a Columbia River Cold Water Refugia Plan to be issued by November 2018. Elements of the Plan include: characterization of cold water refugia (CWR) in the Columbia River (mouth to Snake River); characterization of adult salmon and steelhead use of CWR; assessment of whether the current amount of CWR is sufficient to meet Oregon's CWR standard; identification of locations to protect and enhance CWR, and identification of actions to protect, restore, and enhance CWR.

The 1-day workgroup meeting is intended to focus on characterization of salmon and steelhead use of CWR and framing the question of whether the amount of CWR is sufficient to meet Oregon's CWR standard. EPA has assembled information on adult salmon and steelhead behavior and survival in the Columbia River during the summer months. We plan on sharing this information prior to and during the workgroup meeting and teasing up some key questions for discussion and feedback. We hope to draw on your expertise to fill in information gaps, identify sources of information, identify analytical tasks, and possibly frame future field research.

We anticipate the workgroup to include about 15-20 people from NOAA, USGS, University of Idaho, Oregon State University, ODFW, WDFW, Oregon DEQ, Washington Department of Ecology, CRTFC, LCREP, and EPA.

Your expertise related to this topic is greatly valued and EPA looks forward to your possible participation. We are tentatively planning for this meeting to occur in May. Please reply via email if you would like to participate. After we get the final list of attendees, Nancy Schifferdecker from NOAA will set up a doodle poll to schedule the meeting.

Please contact Dru Keenan or myself if you have any questions or if we can be of any assistance.

Thank you

#### Invite List

NOAA – Ritchie Graves, plus Rich Zabel, Lisa Crozier, or Aimee Fullerton

USGS – Pat Connelly, plus Jason Dunham and/or Christian Torgersen

U of I – Matt Keefer

OSU – Carl Shreck

ODFW – John North (mid Col tech coord), Erick VanDyke (FPC data requester), or Jimmy Watts (Harvest)

WDFW – Dan Rawding (suggested by Pat Connelly; Wind River), Charles Morrill (FPC data requester), Joe Himmer (Harvest data), or Jeff Wickersham (Harvest)

CRITFC - Jeff Fryer (tag studies) and/or Stuart Ellis (Harvest)

LCREP – Catherine Corbett or Keith Marcoe

ODEQ – Debra Sturdevant

WDOE – Chad Brown

NOAA Coordinator – Nancy Schifferdecker

EPA – John Palmer, Dru Keenan, Joe Ebersol, Jonnel Deacon, Marty Jacobson